32160—30,000—8/38

From Whom ...	Director of Gardens.
Place	S.
Date	

Departmental Reference Numbers

SUBJECT

Food Production at Botanic Gardens.

Index Reference

Connected papers

No Minutes should be written on this Page

Raj. Amin
Saxoni — (pat. Flowers)
Kavas
Khinjal 2
Tabi
Tabi
Mat Sudi (A.B.P. ...
Mercandy

Maize, Sweet Corn
Ms. P. A. 34
Kubel

Red Kabab

Sweet Potato Red No 3
Sandberg

Small Potato Red No 4
Sandberg

Sweet Potato
Big Yellow
Sandberg

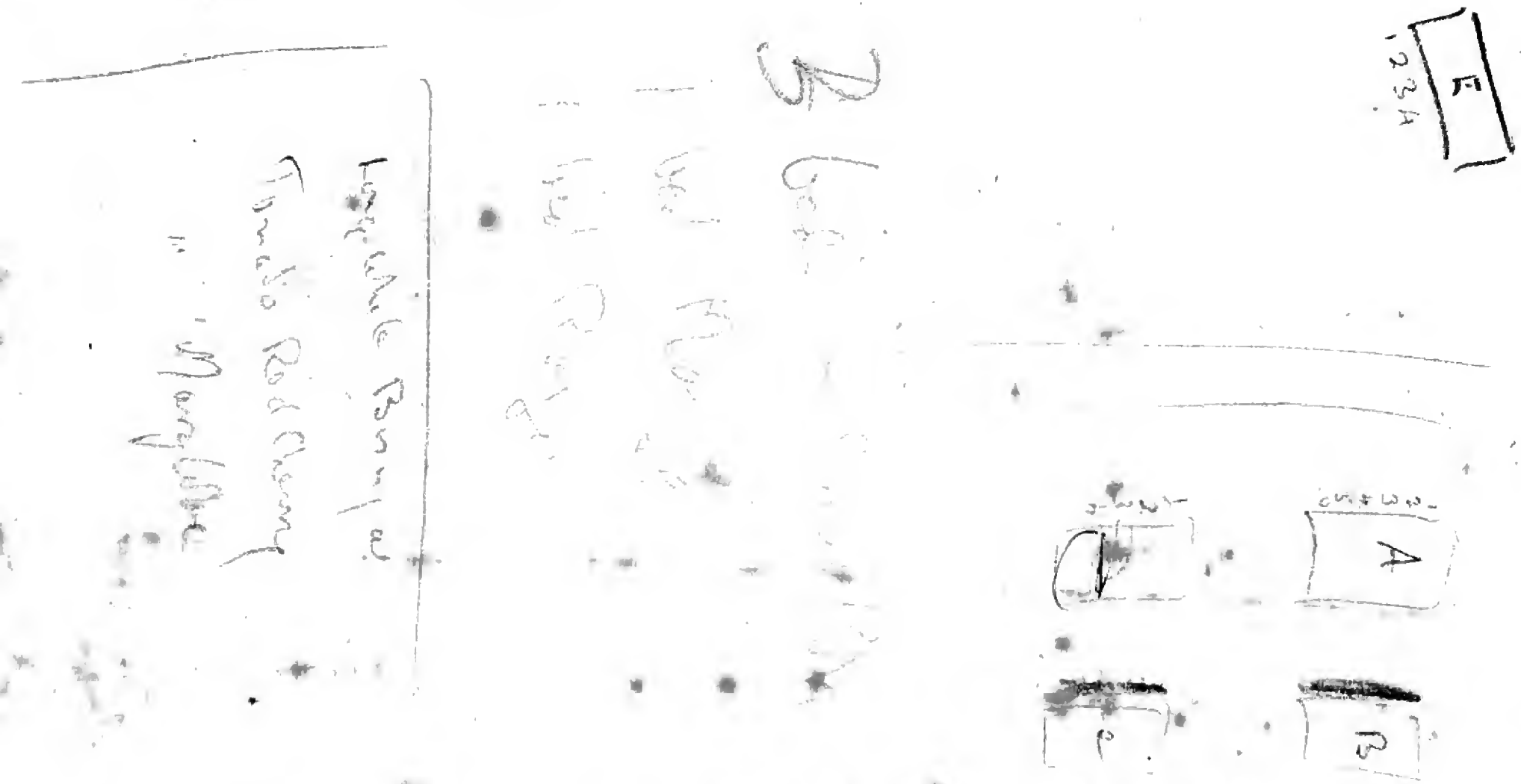
B2.8/2

enclosed herewith a ...
and experience.

Looking forwa

~~Ho~~

north temperate Horse-Chestnut trees (Aesculus) of which are sometimes included in the Sapindaceae.



flowers, ~~and~~ the pinnate leaf without a terminal leaflet, and the groove or pit at the base of the leaf-stalk which is continuous with a groove on the twigs. The last leaflet on the leaf-stalk may appear to be terminal but, actually, in all cases (except Paranephelium) a small spike ~~will~~ can be found on one side of the stalk of this leaflet to indicate the real end of the leaf-stalk. The Rambutan, ~~and~~ Kalat haya (Eurioglossum) and Hop Tree (Arfeuillea) ~~are the~~ provide the best introduction.

It is not easy to distinguish the genera ~~easily~~ without the fruit. The flowers are ~~charac~~ also distinctive ~~of the genera~~ but, being small, ~~it is~~ they are

24-6-41

should die the Company will pay his Estate the full face value of the policy without any deductions whatsoever, but should he be alive at the end of the 20th year, having had 20 years full insurance cover for only the first 10 years premiums, the Company will return to him in cash more than half of the premiums he has paid them. This amount of cash, together with dividend accumulations for the first 10 years, will amount to about two-thirds of the premiums he has paid.

N.B. The above is applicable to a 20 Year Endowment Policy issued at age 35. The Table in each policy varies, of course, with the age of the assured and the plan of assurance but the basic principles are applicable to every policy.

W. Allan Eley.

Manager,
South Eastern Asia.

Plot A Beds No. 1 - 14.

ROAD

	Far Half	Near Half	
1	X Brinjals "Long White" label	Brinjals "Long Purple" label	
2	Cauliflower Early Market 1st planting	Cauliflower Early Market 2nd Planting	Carrot
3	~~Leek~~ Carrot Early Horn 1st planting 3.21/8/41 | X Radish 1st planting	~~Leek~~ | Radish 2nd planting 2nd planting	Leek [illegible]
4	X Tomato Red Cherry 1st planting label	~~Carrots Inimitable~~ label 1st planting | ~~Carrots Inimitable~~ 2nd Planting	Silver Beet. 3 of 5 ("Inimitable" not detectable).
5	X Carrots Chantenay 1st planting label | Carrots Chantenay 2nd planting	X Tomato Marylobe 1st planting label	
6	Brinjals Round White label	X Brinjals Round Purple label	
7	Spring Onions 1st planting	X Carrots Early Horn 1st planting | Carrots Early Horn 2nd planting	
8	Turnip 1st planting | Turnip 2nd planting	Spring Onions 2nd planting	
9	Tomato Red Cherry 2nd planting	Kobak 1st planting	
10	Kobak 2nd planting	Tomato Marylobe 2nd planting	
11	X Beetroot Suttons Globe 1st planting | X Beetroot Yates Derwent Globe 1st planting	Beetroot Yates Oblong X 1st planting	
12	X Parsnip Improved Hollow Crown 1st planting	Parsnip Improved Hollow Crown 2nd planting.	
13	Beetroot Suttons Globe 2nd planting | Beetroot Yates Derwent Globe 2nd planting	Beetroot Yates Oblong 2nd planting	
14	Artichokes 1st planting	Artichokes 2nd planting	

B 2.8/5

KEH.

It is requested that the following number be quoted in the reply to this letter.

Dup. Sur/39

CENTRAL EXPERIMENT STATION,
SERDANG, SUNGEI BESI, P.O.,
FEDERATED MALAY STATES.

No. 3 in Ser. 71/41.

24th June, 1941.

Dear Corner,

The greater part of the material you asked for is being railed to you free of charge on 26.6.41. There are a few comments to be made.

Yams - Plants cannot be supplied, but tubers (sprouted if possible) of each of the following varieties are being sent:-

Greater Yam - No. 30 (Philippine introduction).
" " " 64 (" ").
" " " 100 (Indo-China ").
Lesser " No. 288 (" " ").
" " " 270 (Philippine ").
" " "Cush-Cush". (Mauritius ").

Sweet Potatoes - Cuttings of the following varieties are being sent:-

Samar Big Yellow (a yellow fleshed variety introduced from Philippines).
Red No. 3 (a local selection).
White No. 4 (" ").

Bananas - Three suckers of each of the following popular varieties are being sent:-

Pisang Embun.
" Rastali.
" Mas.
" Masak Hijau.

Kumquat - Milsum tells me that the correct name of the plant at Serdang is Citrus Swinglei, Burkill. I am afraid I have no young plants but I will send 12 fruits instead from which you can get the seed and raise the seedlings.

Rough Lemon.) Plants of these, are also not available and here
Seville Orange.) too I am sending fruits instead.

Lemon - Villa Franca)
" Granda) Vegetative material of these is obviously
Genoa) necessary, and since marcots are not available at present they will be prepared and sent to you early in 1942.

Cover Crops - Stocks of seed of Centrosema, Calapogonium, Dolichos and Pueraria are not kept at Serdang. Planters Stores or Whitalls would probably be glad to give you a small packet of seed of each. Mikania scandens is usually established from cuttings and if you cannot get these in Singapore, we can arrange to send you some down.

Sugar Cane - The variety being sent is Hong Kong No. 1.

Yours sincerely,

Answered
26/6/41

E.J.H. Corner, Esq.,
Botanic Gardens,
Singapore.

B 2.8/6

DEPARTMENT OF AGRICULTURE. S.S. & F.M.S.

CENTRAL EXPERIMENT STATION.

SERDANG.

SUNGEI BESI P.O.

20th June 1941.

SIR,

The undermentioned material has been forwarded you today in accordance with your order:—

[illegible]

Rail consignment not enclosed.

Agriculturist. i/c

To

Blanc [illegible]
Singapore

B 28/7

(Traffic 310)

F.M.S. RAILWAYS.

№ 34801

..... { Receiving Station No.

RECEIPT NOTE FOR CONSIGNMENTS CARRIED BY TRAIN.

Sadong Station

26 6 19

Received from (NAME) [illegible]

(ADDRESS) [illegible]

the undermentioned for conveyance by Goods/Passenger train

to Singapore Station for

(NAME) T. R. [illegible]

(ADDRESS) [illegible]

subject to the By-laws and Regulations of the Federated Malay States Railways (or any amendments thereof or supplements thereto)

Charges payable by [illegible]

(Here insert "Consignor" or "Consignee.")

R. P., K. L.

No. of Wagon if by goods train.	No. of Articles.	DESCRIPTION.	Marks and Nos.	Weight	
				P.	K.
	One	Box [illegible]			
	One	[illegible]			
	One	[illegible]			
	One	[illegible]			

I hereby undertake to relieve the Federated Malay States Railways from all liability in case of loss, damage, injury, delay or misdelivery to any articles mentioned above which are classified in accordance with the General Classification of goods as conveyed at owner's risk, except upon proof that such loss, damage, injury, delay or misdelivery arose from wilful misconduct on the part of a Railway servant, subject to the condition that:

I desire the following articles ..... *(if no articles to be enumerated here, write, Nil.)* ..... mentioned above, which are ordinarily, conveyed at owner's risk but which the Railway accepts at Railway risk in consideration of the payment of enhanced rates, to be conveyed at Railway risk and am prepared to pay the additional charges authorised in the Tariff Book.

Signature of sender or his Representative .....

Address .....

Signature of Loading Clerk .....

NOTE.—While goods are in the possession of the Royal State Railways of Siam they shall be subject to the By-laws, Rules, Regulations and Conditions of the Royal State Railways of Siam.

[illegible]

for sending

cuttings

18 sweet Potato red no. 3

16 " Lamar Pig yellow

14 " local no. 4

B 2. 8/9

		2	50		
ancy of inter	C.S. paper. 9644/23.	14	00		
ies to Mohd: of Hari from 1. 6. 34.				518	00
		5	00		
		2	50		
		1	00		

From Central Experiment Station, Serdang

Succers			
2	Banana	Mas Hijau	Sour orange seeds
2	"	Mas	Rough lemon seeds
2	"	Rastali	Citrus aurantiacum seeds
2	"	Ambon	" usamoensis "
2	Sugar cane	Hong Kong No. 1 (cuttings)	
8	Tapioca, Ketjil	Mentiga — "	
8	"	Mangi — "	
3	Keladi	Nigeria variety	tubers
3	Xanthosoma	N. Pumakis ✓	
3	Keladi	Golic from Philippines ✓	
3	"	Hong Kong ✓	
3	"	Klang variety ✓	
3	Curcuma	dumbetica	Zephyranthes
3	"	gedoaria	~~[illegible]~~ candida seeds
3	"	purpurascens	~~[illegible]~~ texcana "
3	"	Xanthorhiza	——— Vogelii "
3	Zingiber	Cassumuna	Rafi seeds
3	Alpinia	galanga	Maize seeds U.S.D. 0434
2	Greater yam	No. 30	Sweet Corn
2	" "	No. 64	Red Bean seeds
2	" "	No. 100	Kumquat seeds
4	Lesser yam	Cush-Cush	Citrus Swinglei
2	" "	No. 288	
2	" "	No. 270	
4	Italian line		
4	Tahiti line		
4	Pineapple [illegible]		
2	Patchouli		
4	Avocado pear (Serdang)		
	Cocoanuts		
4	Papaya	Singapore seedlings	
4	"	Hawaiian "	

B 2.8/10

DUPLICATE G. O. 148) G 10

The Colonial Government of the Straits Settlements

Head of Estimates .....

Sub-head THE ASIATIC PETROLEUM CO.(P.S.) LTD., SINGAPORE.

Dr. to Bill No.B.706

DATE	DETAILED DESCRIPTION OF SERVICE OR ARTICLE	RATE per gall.	AMOUNT $	c.
	THE DIRECTOR OF GARDENS,			
	BOTANIC GARDENS,			
	SINGAPORE.			
3.3.33.	To 3 x 4 Gall. Drums Shell Motor Spirit			
	- 12 Gallons @	89 cts		
	Less Duty	35		
		54		
	Less 17½%	9.45		
		44.55		
	Plus Duty	35		
		79.55	9.55	
	To Deposit on 3 x 4 Gall. Drums @ $1.50 each		4.50	
			14.05	
	Delivery:-Today.			
	Your Order No.166 dated 2.3.33 attached.			
	For THE ASIATIC PETROLEUM CO. (P.S.) LTD.			
	Authority	TOTAL	14.05	

I HEREBY certify that the above service has been duly performed, and that prices charged are

RECEIVED this ..... day of ....., 193 .

t of the above account, the sum of .....

NOTE —No signature should be written or stamped here until payment has been actually received.

When payments are made by Public Officers for Petty Expenses for which it is not practicable to obtain Under-Receipts, the following Certificate must be signed by such Officers.

I certify that the charges marked thus * have been actually incurred and PAID by me amounting to $

ON MAKING COMPOST.

Garden compost is a fertiliser made mainly from leafy garden refuse to which a small quantity of cattle manure and wood ash is added. The compost takes two months to mature.

Garden refuse used for composting should consist chiefly of cut grass and fallen leaves. The site chosen for preparing the compost heap should be either a drained pit or a level plot of well beaten ground. A cool and shady position is preferable to a site exposed to the full blaze of the sun, but if this is not available the compost heap should be covered over with attap and kept moist.

The heaps are made rectangular in shape and four feet in height, the bases being five feet square.

Leafy material which forms the main bulk of the compost may be used as soon as collected. A small supply of cowdung must be procured (one kerosene tin for a heap). To each kerosene tin of cowdung four cigarette tins of wood ash (from a fire-place) are added and the mass thinned down with an equal quantity of water.

BUILDING THE COMPOST HEAP. A six layer of leafy refuse is spread out to form the base of the heap (5 feet square). Over this the thinned cowdung is evenly sprinkled (use one gallon to each layer). A further six inches of refuse is piled on and another gallon of cow-dung mixture spread over. This process is repeated until the heap has reached the required height.

Weekly the heap should be examined and if it appears dry water may be sprinkled over it. After three weeks the heap will be found to have shrunk to about 2/3 of its original bulk. It is then thoroughly mixed up with a rake and re-built. During this operation water may have to be added unless the compost is moist and clammy. The heap is again covered over with attap and left for a further five weeks by the end of which it will be ready for use. It will then be of a dark brown colour and soft to the touch. The leaves will have broken down to a homogeneous mass and the generation of heat will have ceased. In newly opened ground compost should be added to eight times its bulk of earth.

(1,000/100—11-57) Genl. 70

Official Memo.

اوفیشیل میمو

.....{13 .
.....{19 .

From.....درفد

To.....کفد

[illegible]

22.8/12

variety of Papaya which you grew, about 12 seeds of each would suffice.

3. The seeds of Seville Orange which you sent in July have also failed to grow. I wonder if it at the same time you could send me some more seed for choice.

E. J. H. C.

Aut D. 1914.

545/39

To:- The Agricultural Officer
Sendang Experimental Station,
Sendang
F.M.S. Selangor

Typed on reverse
27/8/41

Ref:- 3 in Sur 91/41

Sir,

In July you very kindly supplied me with 4 plants each of Papaya Sinigapore and Papaya Hawaiian Breakfast. I regret to say that through the malicious action of a cobra, and of some monkeys, these plants have been destroyed.

2. I wonder if you could send me **seed** of the three main

B 2.8/13

T G 106

Memo

From Act. Director of Gardens, S

Date, 23 8, 1941.

To S. & S.

I return this fan belt, with invoice, because it does not seem to me satisfactory

F. J. H. Conner

Amount of Indents on C. A.							
Balance available	1192	91		Carried over	xxxxx TOTAL	118	13

Dollars.....

I certify that this Schedule and the accompanying Bills are correct in every particular.

Date, ...*193* .

.....*Signature* } *of Head of Department*

.....*Title*

51/8.2 B

DRAFT

Fair Copy
Signed by } 19 .

To

Sir,

Vegetable Seed Trade Sheets

A — 1
B — 14
C 9+2
D
E
F — 1
G — 8
H
I
J — 3
K — 3
L — 6
M — 1
N
O — 2
P — 2
Q
R — 3
S — 2
T — 3+3
U —
V
W — 1
X
Y
Z

91/3 2 B

DRAFT

Fair Copy
Signed by

19 .

To

Sir,

Gironniera

Buds long, pointed, covered by the long caducous stipules: always rather pointed, with wing-like ~~[illegible]~~ scars of the fallen stipules at each end.
~~Leaves alternate, entire~~: ~~stipules conspicuous~~

Leaves alternate, entire.

~~Flowers as in Trema but in slender racemes~~

Flowers ~~in axils~~ 2' axil, in slender racemes simple or sparingly branched, in the leaf-axils, male & female on separate trees. sepals 4-5: stamens 4-5: ovary with 2 long slender styles

Fruit a small, fluted orange stone with 2 long whisker-like styles; 1–several fruits on a stalk from the leaf-axil: seed oily (fruit often empty): calyx persistent at base of the fruit. Flowers 12 oppos. Sp. in India: 2 oppos. in Malaya.

~~This genus includes three species of small, evergreen trees~~ ~~Generally some (twenty to fifty years), occasionally reaching 80'~~

~~This genus includes three common kinds of small trees, which are found in open-country & secondary, as well as in the forest, & which are easily recognised from their curious little orange, 2-whiskered fruits. ~~[illegible]~~ They vary ~~[illegible]~~ 30–50' high, occasionally reaching 80'.~~

~~[illegible] one genus, but they consist entirely of the [illegible] of the stone.~~

~~This genus includes~~ To this genus belong three common kinds of small trees which are to be found in open-country & secondary, as well as in the forest & which are easily recognised from their curious little orange 2-whiskered fruits ~~[illegible]~~ which with an appearance ~~[illegible]~~ turn ~~[illegible]~~ at once attractive & deceptive for, palatable as they look, they consist of little else than a woody stone. It seems, however, that they are eaten in fruit for the little pind that ~~they~~ their gizzards can grind off the stone ~~It can be found [illegible] the stone, in fruit [illegible]~~, & hence their rarity in herbaria. ~~The~~ All these species have rounded, evergreen crowns, 30–50 high, occasionally reaching 80'; they flower seasonally & they drop their leaves. They are called "Mahang kasap", "Mahang hampas ~~[illegible]~~ tebu", "Meseham" but, as they have little or no use, ~~[illegible]~~ Malays ~~[illegible]~~ do not generally recognise them.

~~Veins of~~

Main side-veins of leaf more than 10 pairs: distinctly hairy — G. nervosa

Main side veins less than 10 pairs.

- Blade ~~2–[illegible]~~ 2–5" wide, very leathery: fruit long-pedicelled (with sparsely hairy), ½" long — G. subaequalis
- Blade 1–2" wide; glabrous: fruit scarcely pedicelled, ⅓" long — G. parvifolia.

Basella rubra 1 pkt. Feb. 1941
(Spinach)

Beetroot
Sutton's Globe ~~1 pkt. 5/6/41~~ 1 pkt. July 1941
Yates Dermont Globe 1 " 5/6/41
Yate's Oblong ½ " Jan. 1941 - did not sprout
Yate's Turnip-rooted 1 pkt. July 1941

Bayam - Milsum No. 1 1 pkt. May 1941
(Spinach) " " 2 1 " " "
" " 3 1 " " "
" " 4 1 " " "
" " 5 1 " " "
" " 6 1 " " "
" " 7 1 " " "
Penang " 1 1 " " " Narrow Red Striped Leaves
" " 2 1 " " " Narrow Green Leaves
" " 3 1 " " " Round Green Leaves

Chinese vegetable Gardens
Bates Lumbung Rd. Penang } 1 pkt seed 17th June 1941 { Narrow Green Leaves
Bayam Daun Bujur

Amaranthus in different kinds

Broccoli
Green Sprout Yates 1 pkt. Feb. 1941

Brinjal (Solanum)
purple round ½ pkt Feb. 1941
purple long 1 " Jan. 1941
~~- 1 pkt. Aug. 1941~~ ~~1 " Jan. 1941~~

To

"Terong"
White New York Spineless 1 pkt. July 1941
Purple Pear - 1 pkt. Aug. 1941
Purple Marbled - 1 pkt Aug. 1941
Green Striped - 1 pkt. Aug. 1941
White Pear - 1 pkt Aug. 1941

Fair Copy
Signed by

19

DRAFT

S

B 2. 8/17

M E O 15

Sir,

Key to Quercus

Mature acorns more or less completely covered by the cup — Group A

~~Mature Acorns~~

Mature acorns projecting from the cup or with an open flat top.

Acorns much broader than long; flattened, not or scarcely projecting beyond the cup. — Group B.

Acorns oblong or conical, projecting well beyond the cup

Cups set with spreading scales or distinct scale-points; without distinct rings, or the rings concealed by the scales — Group C

Cups marked with distinct rings or circular lines; without scales or with tiny scale-points not concealing the rings — Group D

Group A

~~Cup thin, smooth or marked with tiny scale points: acorns silky, many in a spike the cup generally splitting radially & exposing the pointed top of the acorns.~~

~~Cup marked with tiny scale points, pressed to the surface: mountains — Q. blumeana~~

~~Cups marked with a few distant rings: lowlands — Q. encleisacarpa~~

~~Cup strongly tubercled, scaly or spiky~~

Cup strongly tubercled, scaly or spiky.

Cup tubercled or set with rambutan-like scales or spheres — Q. lappacea

Cup spiky — Q. discocarpa

Cup smooth, generally marked with distant rings, or with tiny scale points

Cup thin, generally splitting radially & exposing the pointed top of the acorn.

acorns silky, many in a spike.

Cups marked with tiny scale-points, pressed to the surface: mountains — Q. blumeana

Cups marked with distant rings — Q. encleisacarpa

Cup completely covering the acorn, attached to it firmly all round except at the extreme top, large: acorn very hard, massive: mountains.

Cup (without stalk) pear-shaped, 1½–2½" long, dark, finely velvety: acorn flat-topped — Q. maingayi

Cup (without stalk) round, ¾–1⅓" long, pale grey, glabrous. — Q. burkillii

Group B

Acorn glabrous, woody, ~~light~~ brown, with a slightly concave surface: cup top-shaped — Q. costata

Acorn distinctly, but finely, silky.

Cup very large, 1½–2½" wide; acorn with the point in a shallow depression — Q. cyclophora

Cup about 1" wide: acorn ~~sharp~~ pointed — Q. clementiana

Cape Gooseberry		
Common Small fruited Yates	½ pkt.	March 1941
Cabbage		
Golden Acre	1 pkt.	5/6/41
Kurkiball - Yates	1 pkt	July 1941
Carrot		
Early Horn - Yates	[1 pkt. –	July 1941
	[1 pkt.	5/6/41
Chantenay - Yates	1 ..	5/6/41
Cauliflower		
Sutton's Early Patna	1 pkt.	July 1941
Cluster Bean	1 pkt.	Jan. 1941
	1 ..	May 1941
Cluster Bean (Cyamopsis psoraloides) Penang's Gardens	1 ..	23rd June 1941
Cucumber		
Long Green Yates	[1 pkt.	[June 1941
	[1 pkt.	[5/6/41
Apple shaped Yates	½ ..	March 1941

Sir,

Green Manure.

Crotalaria ~~aug~~ anagyroides - Serdang	1 pkt.	28th June 1941
– usaramoensis – Serdang	1 pkt.	28th June 1941

To

Fair Copy
Signed by

19

DRAFT

S

M E O 15

81/8.2 B

Dillenia

(J. J. Dillenius, 1684-1747, the German botanist, professor at Oxford)

Like Wormia but ~~commonly~~ deciduous: the flowers ~~general~~ in most cases solitary, often very large: the fruit not splitting open but always covered by the thick, fleshy or pulpy sepals, & falling off as a greenish yellow ball: seeds brown or black, hard, ~~with~~ without a pulpy covering. About 10 spp., Tropical Asia & Australasia: 6 ~~of~~ spp. in Malaya.

D. indica — Elephant-Apple. ~~Elephant's~~ Indian Simpoh

Peradun (E. Johore)

A more or less deciduous tree, upto 60 ft. high, ~~& many branched~~ with a few, wide-spreading limbs: bark rich orange-brown, or duller & paler in the ~~fall~~ often, thinly, ~~but~~ & often rather sparingly, papery flaky, with faint transverse leaf-scars: twigs stout.

Leaf-blade 8-14 × 3-6", long, narrowly elliptic, ribbed, stiff, ~~we~~ ~~the~~ curving out, light glossy green, edge toothed, ~~beautifully curving out~~, beautifully ribbed with many (30-40 pairs) of side-veins: stalk ½-2½" long.

Flowers 7-8" wide, very massive, solitary at the ends of the twigs, facing down: petals yellowish green: petals white, 2-3" wide.

Fruit 6-7" wide, yellowish green, ~~very~~ hard & tough.

India, Siam, Malaya: frequent on the banks of streams & rivers in the lowland forest ~~in the Sarawak~~ throughout the country, occasionally cultivated.

The flower of the ~~Elephant's~~ Indian Simpoh is bigger than that of any other of the ~~Malayan~~ Malayan genus: & indeed, there are ~~very~~ few trees, from any part of the world ~~that~~ these flowers can rival it in ~~massiveness~~ bulk. The equally large, obtuse fruits are eaten, it is said, ~~and used to be eaten~~ by elephants but, ~~as this~~ more often, the fruits fall into the water & the seeds germinate where they are washed up on the ~~river~~ banks. For the ~~The~~ Indian ~~Elephant's~~ Simpoh is a typical, though not very common, tree of the lower reaches of the Sarawak-streams where they descend from the hills & enter the alluvial plain (p.); it is ~~common, perhaps~~ abundant also on the Rangas-~~to~~ rivers of Kelantan & Pahang, Trengganu (p.).

The bark ~~to~~ is like that of some species of Lingania, except for the transverse lines of the leaf-scars. But the orange bark & the large, glossy, ~~but~~ toothed & beautifully ribbed leaves enable one always to ~~distinguish~~ recognise the ~~tree~~ in the absence of flower or fruit.

Because of its heavy fruit, this ~~the~~ species ~~does~~ is not ~~land itself as a~~ recommend for planting outside ~~as a~~ ~~on the~~ roadsides ~~tree~~ & it is seldom seen in gardens. There are

Bent tufts Sarawak. Penang.

Penang spec.

61/5 2 8

DRAFT

Fair Copy
Signed by

19 .

To

Sir,

flower-spikes, their cone-like fruit-heads, their pine-like needles, their conical monopodial habit when young, like the 'closed umbrellas' of Cypresses, and the fact that they are wind-pollinated (and evergreen) we must accept the ~~disagreeable~~ conclusion that Casuarinas are not Conifers.

One quickly learns to recognise a Casuarina from its switching ~~too~~ green ~~green~~ twigs, its lack of foliage and its formal shape. If one likens these ~~switching~~ twigs to the needles of ~~a~~ a pine-tree one must remember that they differ profoundly. Pine-needles are true leaves, but those of Casuarina are twigs; they end in nubs: the joints are their nodes and the finely grooved intervening parts their internodes. The leaves of Casuarinas are merely teeth set in circles at the nodes and so small that they can scarcely be discerned without magnification: they have no vestige of a blade and, in fact, have lost their ~~function~~ power of photosynthesis which has been taken over by the green twigs; they are, to all intents, useless except for the protection of the buds & young flowers. These, too, are so insignificant that most people do not notice them; but the ~~stamens~~ staining stamens give to the ends of the needle-twigs a brownish or yellowish look & the young female heads are conspicuous from the red styles. When the stamens are ripe the twigs give off clouds of pollen which is blown about by the wind and if any settles on the projecting styles of the female flowers, those flowers will be fertilised & set fruit; there is no evidence that insects visit them. Casuarinas are big trees, most minute in their construction.

To understand the growth of a Casuarina one must realise that it has two kinds of twigs. The most obvious are the green needle-twigs which have a limited life: they grow to a certain length, characteristic of each species, but they do not thicken nor do they become woody: and after a certain time they age, turn brown & are cast off the tree to collect round its base like a mat of pine-needles. These twigs serve in the office of leaves & they are borne on the stouter twigs of the second kind, which are green only at their tips and soon become woody and develop into the branches. One or two needle-twigs rather longer than usual can generally be found near the ends of the stouter twigs & such develop into the side-branches. The appearance of the crown, whether bushy as in the Sumatran Rhu or rather skimpy as in the common Rhu, depends on the abundance of needle-twigs, the amount of branching in the stouter twigs which is more frequent in the bushy Sumatran Rhu, and whether the needle-twigs themselves are branched or unbranched. Until they have reached their full height, Casuarinas are strictly monopodial & have a conspicuous main stem tapering to the vertex of the crown: after this period,

DRAFT

Fair Copy Signed by	19 .

To

Sir,

Stereospermum

Leaves one pinnate, leaflet opposite

Leaves one pinnate, cotyl. opposite, leaflet, a terminal leaflet: no glands on the stem.

Flowers in large loose terminal & lateral panicles: corolla

Pod long & narrow, with a corky-spongy, notched central strand with the seeds fitted in the notches: seeds rather small with narrow, semi-transparent wings.

About 20 spp. Tropical Africa, S. Asia to Singapore: 2 spp. in Java.

Leaves hairy: flowers pale pink, with fringed edge — S. fimbriatum

Leaves glabrous: flowers pale purple with crisped edge — S. hendecandrum

Onake Tree

S. fimbriatum

Cnachan, Chinan

A tall, erect tree to 90', with whorled branches: crown very high, narrow, cylindrical, rather open & uneven, with drooping, ascending whorls of branches: bark light grey, roughly fissured & flaky: young shoots & leaves with stellate hairs.

Leaves 12–20" long, with the stalks glabrous, rather stiff, 2–3 pinnate, usually 3, 3–6 × 1½–2½" elliptic, long-tipped, rounded at the asymmetrical base, light yellowish green especially when young: leaflet stalks ¼" long.

Flowers ¾–2¾" wide, pale pink or pale purplish lilac, in large clusters, 3–12" long & wide, on the bare twigs, with the new leaves: calyx ½" long, with 5 very short lobes: corolla tube ½–¾" long, dull yellowish, the petals beautifully fringed.

Pods 15–24" long × ⅓", long thin, hanging, twisted in a loose extended coil like a snake, the corky central strand pale reddish: seeds 1½" × ½", pale with ~~central body~~ rather dark wings.

Burma & Malay Peninsula as far south as Malacca, in high forest & plantations: frequent in villages & cultivation from Malacca to ~~the Straits~~ Perak & Kedah.

With when ~~in~~ leaf only, it is difficult to recognise unless one has learnt its upright, narrow appearance. But in flower it is unmistakeable from pale pink flowers with fringed edge & buds & both

Jack-Bean 1 pkt Jan. 1941 (Kacang Parang)
(Sword Bean)

Job's Tears (Coix) (Jali)
Manila 1 pkt. 1940

Jagung (Indian Corn) 1 pkt. June 1941
(Jagung Indian)

Sir,

To

Fair Copy
Signed by } 19

DRAFT

T MEO 15

12/8/41

Nutmeg Family

Myristicaceae
(from the genus Myristica)

Evergreen trees or shrubs with alternate leaf shape, seed and resinous or aromatic tissues, very like the Annonaceae but with watery juice or red sap in the bark and twigs; our species generally ~~[illegible]~~ and inflorescences usually scaly or woolly.

Leaves alternate, simple, entire, exstipulate, generally non-glandular, leathery, dotted and lacking ~~and~~ in a network of veins and commonly glaucous or whitish on the underside; our species generally hairy.

Trees ~~[illegible]~~ male and female, small, set in small clusters or hanging in the leaf axils ~~on the branches~~ among the leaves, male & female on different trees.

Flowers generally very small, without petals, male & female, set in small clusters in the leaf axils or on the branches behind the leaves, male and female on different trees. Calyx cup-shaped, hanging with 2 or 3 lobes that [illegible] to form a [illegible] point, often [illegible] scaly. Male flower containing a tiny column with the anthers at its [illegible]; female flowers containing a 1-seeded ovary.

Fruit oblong or round, small to large, with a thick or thin, fleshy yellow, red or brown rind, splitting open and displaying the one large, hard seed (nutmeg), surrounded by ~~[illegible]~~ red, pink, yellow or orange, pulpy or waxy ~~[illegible]~~ coat (mace, or aril): the ~~[illegible]~~ fruit splitting on one side only or splitting completely into two outward-curling halves: seed large, the hard endosperm deeply ruminated by brown lines ~~(as in Annonaceae)~~ (i.e. ruminate as the Annonaceae)

15 genera, 250 spp., all of the tropics, most in Africa: 4 genera, ~~[illegible]~~ and over 50 spp. in Malaya, most in lowland forest.

22/8.28

T

M E O 15

DRAFT

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Signed by

19 .

To

Sir,

Kadamg Bensh Colleges
Pt. Ram

Fair Copy
Signed by

Sd/- Mauna
(Museum wala)

Dtd. 1941 (Vigna)

May 1941

C. microcarpa

Lime

Limau [illegible]

Leaf-blade 1–3½ × ¾–2", elliptic, the edge [illegible] toothed. Leaf-stalk ¼–1" long, [illegible] with a [illegible] [illegible] narrow wing.

Fruit 1–2" wide, [illegible] [illegible], green then yellow [illegible] [illegible], with [illegible] [illegible] [illegible] pulp.

Stop →

~~C. hystrix~~

C. grandis

Pummelo, Shaddock

Limau besar

Leaf-blade 2–6 × 1¾–3½" ~~[illegible]~~ elliptic, the edge [illegible] toothed. Leaf-stalk strongly winged ½–2½" wide, but always less than half the width of the blade.

Fruits 4–10" wide, very large, shaped like pears or [illegible] [illegible], [illegible] green to [illegible] [illegible], with pale [illegible] [illegible] or [illegible] pink pulp. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible]

Stop →

C. hystrix

Limau ~~[illegible]~~ purut

Leaf-blade 1–2" [illegible] [illegible] [illegible], [illegible] [illegible], the leaf-stalk as ~~[illegible]~~ widely winged as to [illegible] the [illegible] half of a blade [illegible] [illegible].

Fruit 1½–2½" wide, round, [illegible] [illegible], green, turning [illegible] [illegible] [illegible] with [illegible], rather [illegible] [illegible] fragrant [illegible] [illegible].

Stop →

C. macroptera

False Shaddock

Limau hantu

Leaf-blade 2–4 × 1¾–3", ~~[illegible]~~ [illegible] [illegible] ~~[illegible]~~ [illegible] [illegible]. Leaf-stalk winged [illegible] [illegible] as the blade, appearing as half of [illegible].

~~[illegible]~~

Fruit 4–5" wide ~~[illegible]~~ round like a grape-fruit, ~~[illegible]~~ opening green with very thick white rind and ~~[illegible]~~ a little [illegible] [illegible] pulp.

A wild ~~tree~~ of the middle & north of Malaya, common by the Hot Springs at [illegible].

Stop →

S

22/8/28
M E O 15

DRAFT

Fair Copy
Signed by } 19 .

To

Sir,

s

DRAFT

Fair Copy Signed by	19 .

To

Sir,

Peronema

(P. perens — ~~[illegible]~~ Malaysian [illegible] n.n. — each, from the two visible stamens)

Leaves alternate, pinnate with a terminal leaflet, the long stems winged between the pairs of leaflets.

Flowers tiny, set in large terminal panicles: sepals 5 with 5 triangular lobes overlapping each other: stamens 2, projecting in a fine style.

Fruit a small, small, nearly upright separating into de~~[illegible]~~ parts: seed-coat.

1 species: Malay Peninsula, Sumatra, Java, Borneo

P. canescens — False Elder. "Sungkai", Sukai, Cheren

A small to moderate sized tree up to 60' occ. flowering at 12': bark [illegible] grey, rather fissured or fissured, young shoots with purple hairs; leaf-stalk 1–3' long — the narrowly or broadly winged between the leaflets: leaflets 4–10 pairs, up to 10" 12 × 3", sessile, lanceolate, acute, [illegible] in a long narrow point, narrowed slightly asymmetric at the base, the margin is entire (or toothed or serrate) (indented upward), pale greenish white or ~~[illegible]~~ greyish white beneath, ~~[illegible]~~ upward.

Flowers ·1" wide, greenish white: panicles 1–2' long or more, fairly hairy.

~~[illegible]~~ Fruit ·15" wide.

Common in Penang, Malacca, Selangor, Perak, Kelantan, Pahang, Singapore, Johore, Sumatra, Java, Borneo.

This common and attractive little tree with big teeth-like panicles of tiny flowers and pairs of pinnate leaves with winged stalks, bears an extraordinary resemblance to the elder-trees of Europe and to the Java-Elders of Indian gardens. Its flowers, ~~of the "Sungkai"~~ however, are not fragrant when crushed ~~[illegible]~~ as are those of the Java-Elders, the big panicles, the little dry hairy capsular-fruit and winged leaf-stalks are different. Saplings of "Sungkai" with purple young leaves may be seen in crowds by the railway ~~cutting~~ lines in many parts of the F.M.S.

T

M E O 15

DRAFT

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To

Sir,

Bignonia - Tam 1

Bignoniaceae

(the genus Bignonia - J. P. Bignon, 1662-1743, courtier of Louis XIV)

Leaves generally opposite and pinnate, simple, or 2 or 3-foliate in few cases, simple and blades or simple and spirally arranged: often with glands on the leaflets.

Flowers showy, irregular or funnel-shaped, axillary or terminal inflorescences: calyx valvate, with or without bracts or bracteoles, often closed in the sun and filled with water (water calyx); corolla bilaterally symmetrical, tubular more or less flattened from above downwards, with 5 lobes, 2 being upper and 3 on the lower, the upper lobes often smaller than the lower: stamens 4 or 5, attached to the corolla tube, superior, generally surrounded at the base by a tinglike nectary: ovary with a 2-celled ovary.

Fruit as a pod which is longitudinally partition into 2 compartments, splitting open: seeds many, flat, with a small disc containing the embryo and surrounded by a very thin transparent or ~~opaque and thicker~~ membranous wing.

About 100 genera, 800 spp., tropics & subtropics, mostly American. 5 genera, 10 spp. native in California in the outlands.

The Bignonia family consists of shrubs, trees and woody climbers, easily recognized from their opposite pinnate leaves, large trumpet-flowers and pods with flat winged seeds. The flowers resemble in shape those of Gelsemium or the European Foxgloves because the corolla is somewhat flattened and has an oblique mouth with 5 lobes. The pods differ from those of the leguminosae by having a partition down the centre to which the seeds are attached, and which is notched, as a lace edge of tissue paper with a dark centre. "Opposite pinnate leaves" are a feature and the commonest elder (Sambucus) and the ~~wit~~ wild ~~[illegible]~~ Engelmannia (Bignonia) but they are very regular white flowers. The best introduction to the family is Bignonia, the garden shrub called yellow bells (Stenolomum), the Tulip Tree, and the Jacaranda and the cultivated climber ~~[illegible]~~ Bignonia radicans.

In shape, Bignoniaceous shrubs are distinguished by their open or unclosed corolla with the pairs of leaves branched at the ends of the branches. They are characterized by gymnosperms, that is by a succession of

DRAFT

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To

Sir,

Sorghum

Jawar	1 pkt.	Jan. 1941
Red - Penang	1 pkt.	5/6/41

Silver Beet,

Yates Fordhook Giant	1 pkt.	June 1941

Tomato

Marglobe - Yates	½ pkt	Jan. 1941
✓ Red Cherry - Yates	1 "	5/6/41
Marvana - Yates	1 pkt	June 1941

Turnip

purple Top White Globe	1 pkt	5/6/41
With White Stone - Yates	1 pkt.	June 1941

Green Manure.

Tephrosea vogelii - Serdang.	1 pkt.	28th. June 1941.
" toxicaria - Serdang,	1 pkt.	28 " June 1941
" candida - Serdang	1 pkt.	28th June 1941.

Sir,

To

DRAFT

Fair Copy
Signed by

19

S

MEO 16

B 3.8/27

DRAFT

Fair Copy
Signed by

19 .

To

Sir,

Cerbera

(Gr. Cerberos, the hell-hound)

Leaves arranged alternately.

Flowers funnel-shaped, rather large, white, in terminal, long-stalked, sparingly branched clusters: sepals rather large, 5: petals 5: stamens inside the corolla-tube.

Fruit large, round or oblong, solitary or ~~sometimes~~ occasionally paired, thinly pulpy, with a large, thick, fibrous or woody stone.

5 spp. tropical shores of the Indian or W. Pacific Oceans: 2 spp. in Malaya.

The two malayan species of Cerbera are ~~common plants~~ well-known seaside or sea-shore plants to which the names Pong-pong or Bintaro-bintaro are given. They are ~~also~~ full of their highly poisonous latex, which irritates the eyes, ~~and the juice is poisonous~~ but, as Burkill points out, these are false or exaggerated ~~are~~ have resulted from a confusion with the very poisonous Euphorbiaceous tree Excoecaria (p.), so which the name Bintaro-bintaro should rightly be restricted. Only the seeds of Cerbera are poisonous, the bark, leaves or oil extracted from the seeds are used in native medicine. The fruits ~~look~~ are like very ~~apples~~ apples but they are inedible. They float in the sea or in rivers, ~~are~~ being distributed by currents, & they are commonly washed ~~up~~ up on the shore with only the fibrous husk left ~~surrounding~~ round the hard stone.

~~For Burkill~~ The two species are often treated as one, as in Burkill's Dictionary, but ~~in books~~ they are easily distinguished by the shape & colour of the flower or by the ~~situations~~ places in which they grow. They ~~are~~ are evergreen & appear to flower & fruit throughout the year. The flowers of C. odollam open between 9.30 & 10 a.m. & last for little more than 24 hrs: the eye of the flower ~~turns~~ grey with age. It is rather unpleasantly scented. Such is ~~the~~ general observation.

C. odollam — Flowers with yellow eye: corolla-tube ½ - ¾" long: frequent along tidal rivers.

C. manghas — Flowers with red eye: c. rubel 1-1½" long: frequent along sandy & rocky shores.

C. odollam — Plate 20

(longest plant name) Yellow-eyed Cerbera, Pong-pong, Bintaro-bintaro

A ~~evergreen~~ tree 40 - 60' with grey particular bark & rather narrow, not dense crown.

Leaf-blade 4 - 12 x 1¼ - 3", narrowly ~~elliptic or ob~~ obovate-elliptic, more or less tapered, dark glossy green, with many veins, yellowing orange-brown: stalk ½ - 1 2".

Flowers 2 - 3" wide, fragrant, the corolla-tube ½ - ¾" long, swollen in the middle by the stamens: sepals ½" long.

Fruit 2 - 4" & thick, round, green then pink, rosy-purple & finally blackish, solitary.

Common in mangrove swamps & ~~by tidal~~ on the muddy banks of tidal rivers far inland.

Vegetable Marrow – Yates long white-fruited.

planted in PlOr B 7/8/41, the seed soon in the ground. very rapid growth. sprouting over ground.

Flower buds form in axils of 2nd or 3rd leaves, but I had there all off & I picked off all fls. until about 20th Sept. I let Bee ☆ them develop. From 26/9/41 we received or had have opened every day but the female flowers grow to a certain size & then drop off without opening (This is with a 2 plants grown on the ground).

The stems & petioles are hollow & ☆ I filled with ~~[illegible]~~ the hollows. I've not seen the ~~[illegible]~~ mucilage & with & could rupture the stems so that ~~[illegible]~~ small beetles can get in & generally this rupturing does not matter. I have to cut off only 3 branches which had wilted.

2 old plants pulled out to 12/10/41. The stems have been eaten by [illegible] so many maggots & wire-worms. I decided to clear them out. Many of the bed [illegible] female

BC. 8/39

3,000—7/30

(*Form R*)

T 125

STRAITS SETTLEMENTS

ADJUSTMENT

ORIGINAL
DUPLICATE

Head No. .....
Sub-head .....

Voucher No. .....

To the BOOK-KEEPER,

Description of Transaction.

You are hereby authorised to make the following adjustment:—

Debit the above.
.....
Credit Suspense Account "P.W.D. Stores" being adjustment
of value of stores issued from the P.W.D. Stores during
the month of June, 1930 under P.W.D. statements attached
to S.J. No. 23
31/8/30.

$	c.
11	2

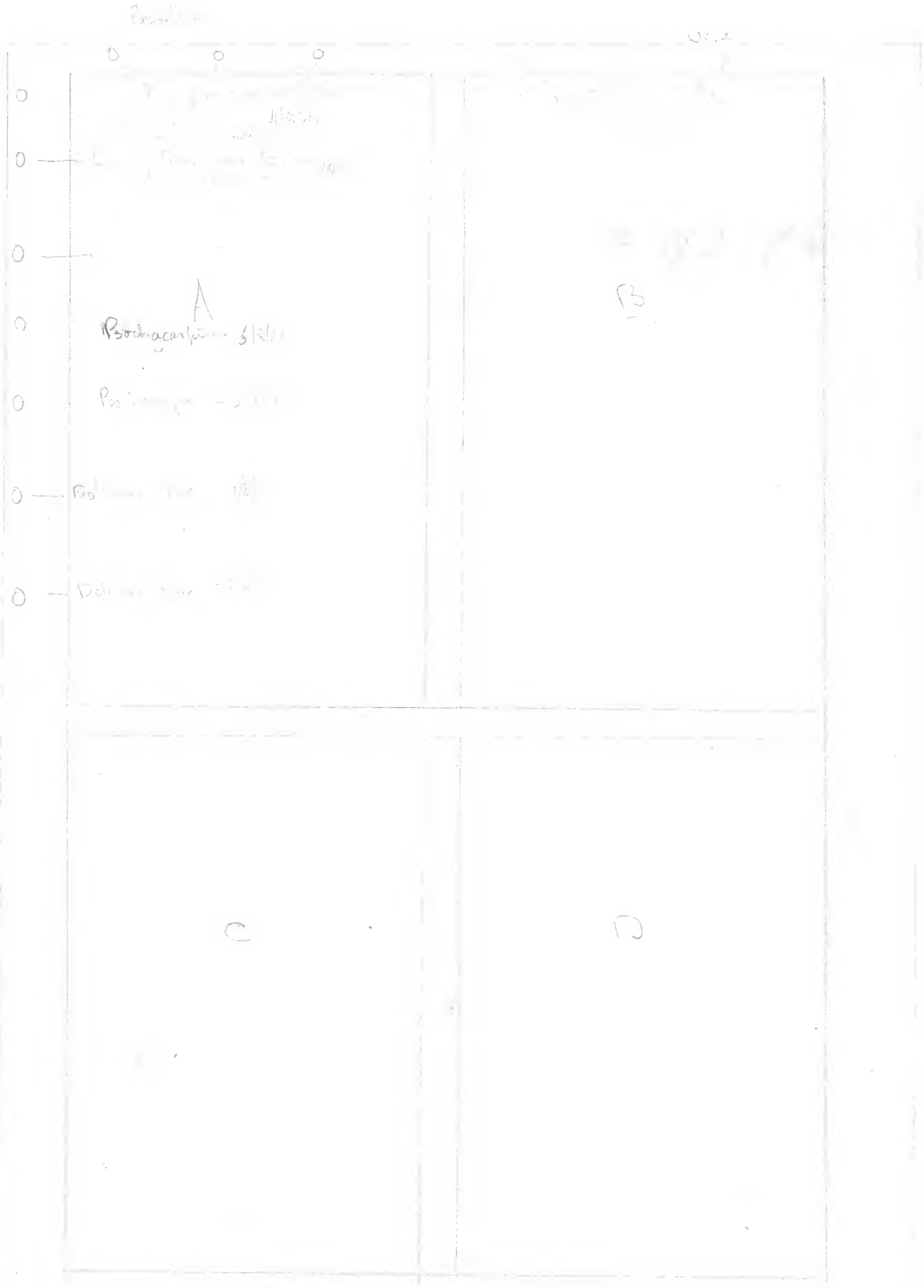
So. G.G. Muller
.....
Acting Deputy *Treasurer.*

DATE, 1st September, 193 .

E 2 8/30

Plate A. B. C. D.

Wood - Sections



SPRAYS.

6 sprays:-

I. CLENSEL: to be used only in special circumstances when common soap or Kerosine Emulsion are no avail.

Concentration:- 1 cigarette tin to 4 gallons water.

Or as on bottle for greenfly.

II. COMMON SOAP - NICOTINE: Soft soap ..... 1 lb.

Water ..... 6 gallons.

Suggest
Soap ½ lb
water ½ gal.

Soap ½ lb
water ½ gall
bring equal parts
add 8 parts
water.

Slice the soap thinly: dissolve in 1 gallon of hot water (and dilute to 6 gallons).

Add Nicotine sulphate (40%) at fluid oz. to 6 galls. of soap spray. (Diluted spray should contain not less than .06% nicotine).

STOCK SOLUTION:- Soft soap ..... 1 lb.

Water ..... 1 gall.

Tobacco Infusion ... 4 fluid oz.

FOR USE DILUTE 10 TIMES

TOBACCO INFUSION:- Boil ¼ lb. tobacco in ½ gall. water, filte

III. KEROSENE EMULSION: Soap ....¼ lb. ..... ½ lb.

Water 3 pts. ..... 1 gall.

Kerosene 5 pts..... 2 gall.

STOCK SOLUTION:- For soft insects as greenfly, dilute 1:15

" scale 1:10 (cannot be used on young foli

Shave the soap and disslove in the water by boiling. Add the kerosene while still hot. Agitate vigorously by using a spray nozzle and pumping in and out. Stock solution will last 2-3 week

B 2. 8/31

IV. BORDEAUX MIXTURE:

Solution A:- { Copper sulphate ..... 1 lb.
Water ..... 1 gall.

Solution B:- { Lime ..... 1 lb.
Water ..... 1 gall.

For use, take equal parts of A and B in separate vessels and add to each 25 times as much water. Then mix A and B by pouring simultaneously into a third vessel and stirring thoroughly.

STANDARD SOLUTION: (for keeping):-

Copper sulphate ..... 4 lbs.
Lime ..... 4 lbs.
Water ..... 50 galls.
Sugar ..... ½ lb.

V. LEAD ARSENATE:

Lead Arsenate ..... 1 lb.
Water ..... 50 galls.
Resin-Sticker ..... 1 gall. (not in use at present)

VI. TUBER ROOT:

LAWN. R

		Seeds sown	germination		Seeds sown	germination
1	Kachang Bator (four angle bean)	15.9.39	21.9.39	Kachang Kara Merah (Dolichos)	15.9.39	21.9.39
2	" panjang (Vigna)	15.9.39	18.9.39	" Bombis (French Bean)	~~25~~ 11.39	13.11.39
3	Peria (Bitter Gourd)	15.9.39	21.9.39	Ketula Blimbing (Luffa)	18.9.39	23.9.39
4	Kachang Perut Ayam	15.9.39	21.9.39	Timun (Cucumber)	18.9.39	22.9.39
5	Ketula Ular (Snake Gourd)	18.9.39	28.9.39	Kachang Parang	18.9.39	21.9.39
6	Borella cuttings from Bot. Garden	Cuttings	21.9.39	Borella (red)	Cuttings	22.9.39
7	Lobak (Radish large)	15.9.39	17.9.39	Kachang Bendi (Lady Finger)	15.9.39	17.9.39
8	Jagong (Maize, Corn)	18.9.39	21.9.39	Terong (Brinjal)	cuttings	18.9.39
9	Tapioca large green leaf (good quality)	Cuttings	21.9.39	Tapioca large green leaf (second quality)	Cuttings	21.9.39
10	Tapioca small green leaf	"	21.9.39	Tapioca red	"	21.9.39
11	Keladi Bakawi K. Sarawak Hitam		9.10.39	"Keladi Sarawak" Xanthosoma sagittifolia	rhizome	26.9.39
12	Kledek Merah (Sweet Potato red variety)	Cuttings	21.9.39	Kledek Merah	Cuttings	21.9.39
13	Kledek Putih (Sweet Potato white variety)	"	21.9.39	Kledek Putih	"	21.9.39
14	(Colocasia esculenta) Keladi Padang, K. Lilin	rhizome	28.9.39	(Colocasia esculenta) K. Sutor Keladi from Kelantan	rhizome	28.9.39
15	Tapioca Serdang Philippines No 4	Cuttings	3.10.39	Tapioca Serdang Native No 1	Cuttings	3.10.39
16	Sauropus androgynus (Cheta Tranis)	"	3.10.39	Maize (Jagong)	25.10.39	27.10.39
17	Colocasia esculenta Keladi China	rhizome 163/39	5.10.39	Colocasia esculenta Keladi Udang	163/39	9.10.39
18	" " " Rokit	" 163/39	9.10.39	" " " Telor	163/39	9.10.39
19	" " " Ulang	" 163/39	" " "	" " " Minyak	163/39	9.10.39
20	Lobak Sawi "	25.10.39		Bunga Pepaya, B. Hitam, Keladi Bunga		9.10.39
21	Bengkuang " "	25.10.39		Terong	Seedlings	25.10.39
22	Timun " red	25.10.39	27.10.39	Kachang Bendi	25.10.39	27.10.39
23	Maize " Jagong "	25.10.39	" " "	Jagong		
24	French Beans Phaseolus	7.11.39	13.11.39	French Beans	7.11.39	13.11.39
25	Jagung [illegible] (Chickpea)	4.12.39				
26	Dioscorea Dioscorea	from market	5.10.39			

LAWN. Y

		Seeds sown	germination				
1	Kachang Goring (Ground Nut)	13.9.39	19.9.39				
2	Timun (Cucumber)	16.9.39	20.9.39				
3	Kachang Bomchis (French Bean)	16.9.39	23.9.39				
4	Peria (Bitter Gourd)	16.9.39					
5	Jagong (Maize)	16.9.39	20.9.39				
6	Kachang Panjang	16.9.39	19.9.39				
7	Jagong (Maize) from Mr. Santado	18.9.39	22.9.39	Sawi	seeds sown 15.9.39	transplanted	22.9.39
8	Ketula Blimbing (Luffa)	20.9.39	24.9.39				
9	Bengkuang	20.9.39	6.10.39	Lobak (Raddish medium)	seeds sown ~~15.9.39~~ 22.9.39	transplanted	1.10.39 ~~24.9.39~~
10	Ketula Ular (Snake Gourd)	20.9.39	29.9.39				
11	Kachang Parang	20.9.39	24.9.39				
12	Kachang Perut Ayam	20.9.39	23.9.39				
13	Lobak (Raddish large)	15.9.39	transplant	21.9.39			
14	Sawi white		"	26.9.39			
15	Sawi Green		"	26.9.39			
16	Kledek Merah (Sweet Potato red variety)	Cuttings	21.9.39				
17	" Putih (Sweet Potato white variety)	"	21.9.39				
18	Kachang Goring (Ground Nut)	16.9.39	19.9.39				
19	Borella white Seedlings from Bot. G.		21.9.39				
20							
21	Tapioca (Serdang) Native No. 11	Cuttings	28.9.39				
22	" " " " 11	"	28.9.39				
23	Tapioca (Serdang) " " 1	"	26.9.39				
24	" " " " 1	"	26.9.39				
25	Tapioca (Serdang) Philippine " 4	"	26.9.39				
26	" " " " 4	"	26.9.39				
27	Kledek Putih (Sweet Potato red variety)	Cuttings	21.9.39				
28	Ubi Kayu Putih	"	19.9.39				
29	" " "	"	19.9.39				
30	Ubi Kayu (Tapioca large green leaf)	"	15.9.39				

NURSERY

LAWN. Y

BLOCK.

21 22 23 24 25 26 27 28 29 30

Cleared

DRAIN

20
19

BLOCK.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

LAWN. R

BLOCK. A.

26 25 24 23 22 21 20 19 18 17 16 15

TERRACE

14 13 12 11 10 9

TERRACE

8 7 6 5 4 3 2 1

B.C.8/33

List of Teaching Staff from
[illegible] 13

5 [illegible] – 29/9/[illegible]

[illegible]

2 [illegible] 3/10/[illegible]

2 [illegible] 6/10/[illegible]

2 [illegible] 8/10/41

[illegible] – 10/10/[illegible]

3 [illegible] 13/10/[illegible]

½ [illegible]

[illegible]

TOTAL ..	6	—

Director of Gardens, S.S.

Dollars six only —

No.6 in Ser.71/41.

(Gen. 67)

emorandum.

3rd. September, 1941.

To The Ag: Director of Gardens, S.S.
Singapore.

Reference your memo 545/39 dated the 27th. August, 1941, I have to-day forwarded under separate cover the undermentioned seeds:-

Papaya:
Hawaiian B'fast.
Singapore
Semengka.
Seville Orange.

2. I trust you will succeed in establishing them this time.

Received & acknowledged

Agriculturist i/c.
C. E. S. S.

5/9/41

B 2. 8/35

Kachang Merah

from PCR B.

29/11/41 2¼ lb. seeds extracted.

B 2.8/36

ON HIS MAJESTY'S SERVICE

Canavalia

Sword bean, large seed, long hilum: buff colour
origin Burma or Thailand
per Sec. Herbarium, Hong Kong

ECONOMY LABEL

27.11.41

Yalin Kanibalt - 26.10.41

[illegible]

Yalin Cauliflower - Phenomenal Early

Bayan Lepas [illegible] - 2 pots

Bayan Pulat

Lettuce - New York

Peach - Mint - Mainkan

Yalin Cherry Tomato

Sri Bunga Tanjung Gyllen fruit - Penang

Tomy Tomian Besar

Lada Putih

Black Chilli

Plant out Tuesday

Alter Chilli Tuesday

B 2.8/38

ON HIS MAJESTY'S SERVICE

Herbert B.
Mr E. 21

Canavalia

dehulled seeds: long bilum
origin Hong Kong, grown by
Chinese at Hamilton
per Sgt. Herbert

27.11.41

ECONOMY LABEL

8 2.8/39

[redacted]

[illegible] [illegible]

ENGAGE ~~AT~~ AT THE MIDDLE OF

~~TH~~ THE LON[illegible]

B 2.8/40

the pretext of obtaining food dealers [illegible] on their behalf. It should be clearly understood that no fees of any kind are payable for or in connection with the issue of a food dealer's licence, and the public, especially shopkeepers, are asked to co-operate by reporting any such demands either to the Food Supply Officer or to the Police. Appropriate action will be taken immediately.

****

Members of the public are warned that certain shopkeepers are attempting to profiteer by offering foodstuffs at the rate per pound which has been fixed by the Food Controller as the maximum for a katty. A katty is equal to $1\frac{1}{3}$ lb. and shopkeepers who are profiteering in this way are actually selling at 25% above the maximum rate.

****

B 2.8/41

SINGAPORE COLD STORAGE COMPANY LIMITED.

(INCORPORATED IN THE STRAITS SETTLEMENTS)

ORCHARD ROAD,
SINGAPORE.

C 4/23

TELEPHONE NUMBER

DATE
DELIVERY

YAR TIME

GENERAL GROCERIES

SECOND COPY — OFFICE COPY

E. & O. E.

All parcels forwarded overseas by us are at the risk and responsibility of the consignee.

4158 S No. 39

F	G	P	W	B

Dear Bruce,

Your letter 18/6/41

The Pithecellobium is definitely P. bubalinum and not P. Kunstleri. I have misplaced the specimens of the tree which I thought was Avocado & so cannot identify it! The tree by the side of the road going to Kuala Lumpur is an Artocarpus: it is a species new to the flora and perhaps undescribed: I have collected it previously from Kelantan, Pahang and Johore. It is extraordinary how such things are overlooked!

We have at Kepa fruit of Burkillanthus and a fair number of seedlings. I will send you a batch as soon as they seem to have recovered from their recent journey from Malacca. I am keeping the fruit unopened to see how long it will last: it has a very unusual sweet smell: it is 6 x 3" rather lemon-shaped and lemon-flavored. A

As regards Citrus Swinglei this is merely a name change: it is the same thing exactly as Atalantia polyandra Ridley = Citrus polyandra Burkill. ~~not C. polyandra but polyandra~~ but the name

SUN LIFE ASSURANCE COMPANY OF CANADA

D E F I N I T I O N S

THE ENDOWMENT POLICY is a policy which provides for the payment of a definite sum at the end of a definite number of years (from 10 onwards) or at previous death.

THE WHOLE LIFE, LIFE OR ORDINARY LIFE POLICY (each term is the equivalent of the other) is a policy which provides for a definite sum payable at the death of the policyholder.

THE LIMITED PAYMENT LIFE POLICY is one that provides for a definite sum payable at death only, but with premiums limited to 10,15,20 or 25 years.

THE ANTICIPATED ENDOWMENT POLICY(or Three-Stage Plan) is one that provides for 20% of the face value of the policy to be paid at the end of 10 years, a further 20% at the end of 15 years and the balance of 60% at the end of 20 years. It also provides that in the event of the death of the policyholder within the 20 years the full face value of the policy will be paid to the Estate, even should the assured die after the 10th and within the 15th year or after the 15th and within the 20th year.

TABLE OF GUARANTEED VALUES IN THE ENDOWMENT POLICY:- The client should be informed that there are five options in the Table, any one of which he may exercise if he gets into financial difficulties or wishes to discontinue premiums. For example, assuming the assured had paid premiums for 10 years and there was no indebtedness against his policy he could (1) Have the 11th and subsequent premiums paid by the Company from the reserve value of the policy just so long as there was any balance in reserve to pay such premium. Premiums so advanced are subject to an interest rate of 8%. In the event of the assured's death while the policy was being kept in force under this plan (Automatic Non-Forfeiture), the Company would pay the full sum of the assurance less the premiums thus advanced, plus interest. Should he live to the end of the term, then he himself would receive the full face value of the policy less the indebtedness to the Company or (2) He may take the cash value of the policy or have a loan for the full value thereof, such loan bearing interest at 6% or (3) He may take a fully paid-up Endowment Policy (no more premiums to pay) or (4) A fully paid-up Life Policy or (5) He may take free Term Assurance for 10 years under which plan if he

C. polyandra had already been used for by another botanist for another species before Burkill ~~[illegible]~~ ~~made the change~~ changed. Ridley's A. polyandra to Citrus. Hence Burkill had to change his C. polyandra & called it C. Swinglei Burk. (which is the same as Fortunella Swinglei Tanaka).

The original description of Burkillanthus malaccensis (= Citrus malaccensis Ridley) is in Journ. Arnold Arboretum XX, 1939, p. 255. If you cannot get this, we can lend it to you.

I thought the order for planting material would take some time! If we have to pay, then pay we will, but I feel it is for a show of friends which we should have.

Yours sincerely

L. J. H. C.

B 2 8/43

(Traffic 309.)

F. M. S. RAILWAYS.

..... { RECEIVING STATION No.

RECEIPT NOTE FOR ARTICLES CARRIED BY TRAIN.

.....Station.

.....19 .

Received from.....the undermentioned articles for conveyance by Goods / Passenger train to.....Station for M.....

subject to the By-laws and Regulations of the Federated Malay States Railways.

Carriage*.....

*(To pay or paid.)

No. of Wagon if by goods train.	No. of Articles.	Description.	Marks and Nos.	Weight.	
				P.	K.

.....Railway Receiving Clerk.

.....Delivery Clerk.

Before the above-named articles can be delivered, this receipt, granted to the Sender at the Forwarding Station, must be endorsed by the Consignee and given up at the Receiving Station, if required by the Railway Department.

It is requested that the following number be quoted in the reply to this letter.

No. .....

CENTRAL EXPERIMENT STATION,
SERDANG, SUNGEI BESI, P.O.,
FEDERATED MALAY STATES.

18th. June, 1941.

Dear Corner,

A great many thanks for your letters of 11th. and 16th. June.

The list of material required is formidable and will take a few days to get collected and despatched. The powers that be are also chewing over the question of whether the material is to be supplied free or not. I think they will take a reasonable attitude and let you have it for nothing. I hope so anyway.

Many thanks for the trouble you have taken in identifying the various specimens you took away from Serdang. Further flowering material of Pithecellobium kunstleri is being sent to you to-day. I hunted for pods but could find none.

What about the tree growing near the Albizzia saponaria and which you first thought was an Avocado Pear ? And what of the tree growing at the side of the road going in to Kuala Lumpur from Serdang with creamy coloured latex, and entire dark green leaf ? Would you like more material of each ?

Finally on the subject of Citrus, I am looking forward to receiving material of Burkillanthus and would be glad if you could tell me where I can find the original description of the species. I wonder too whether you could help me in respect of C. Swinglei; Burkill. In Gardens Bull. 5: 219 : 1931 Burkill calls this plant C. polyandra whereas in his Dictionary he gives it the name C. Swinglei: Where can I get the original description of Swinglei ?

Yours sincerely,

E.J.H. Corner, Esq.,
Botanic Gardens,
Singapore.

Mr. Furtado, Can you supply this information? E.J.H.C. 20/8/44

B 2.8/44

COPY

Botanic Gardens,
Singapore,
16.6.41

Dear Brown,

I am so sorry that you were sent the draft of my letter asking for plants instead of the typed copy. I meant to add the p.s. that

1. the tall tree with doubly pinnate leaves near your propagating shed is an Albizzia, probably A. saponaria but we have nothing exactly like it in the herbarium.

2. the Pithecellobium which we couldn't name, is still unable but I think it is near P. Kunsleri. If you could send pods, or flowers, I think I could name it.

3. the Eugenia near or among the Citrus-plants is Eugenia conglomerata, which is mentioned in Burkill's Dictionary.

Yours sincerely,

sd. E.J.H.Corner.

S. T

(G. O. 143)

G 10

The Colonial Government of the Straits Settlements

Head of Estimates Singapore

Sub-head Botanical Gardens, other charges

Dr. to Upkeep of Grounds, Govt. House Domain; page 55, item 9.

DATE	DETAILED DESCRIPTION OF SERVICE			AMOUNT	
				$	c.
29.4.33	Mr. J.A.Le Doux, 277, Tanglin Road, Singapore. To 12 pots Spathoglottis Alba	@	$2.50	30	00

the charges marked thus*, have been and PAID by me.

— COPY —

545/39

T

G 39

MEMORANDUM

From	*To*
Botanic Gardens,	T.W. Brown, Esq.,
Singapore,	Central Experiment Station,
11th June, 1941.	Serdang, Sungei Besi P.O., F.M.S.

Dear Brown,

I have at last the temerity to ask if you will supply this formidable list of plants. I must assure you our intention is not to rival or outsell Serdang but to have an educative Botanical Gardens abreast of modern work and requirements! My plans met with little or no success in Penang because the Resident Councillor has a mind of the late eighties and was unfortunately in the position to quash anything he did not comprehend. So we are to have a demonstration plot, as yet, in Singapore only.

2. Naturally, if we stumble on anything successful we will pass it on to you.

3. Very many thanks for your letter on non-graminaceous cattle fodders. It was very good of you to take so much trouble and the information is just what is wanted. I have two planter-friends in Johore with whom I

P.T.O.

B 2.8/46

have collaborated for several years and they will be most interested to follow your advice. One of them, W. Lloyd of Pendas Estate, will be visiting you shortly, I believe, at Serdang. He is an Italian-born British subject, but you need not be alarmed about that!

4. I am sending a plant-collector to get seeds and seedlings of the wild citrus-tree, Burkillanthus, in Malacca.

Again, with many thanks.

Yours sincerely,

sd. E.J.H. Corner

Planting Material requested from C.E.S., Serdang,
by Director of Gardens, S.S.

Yams

Greater Yam - 3 kinds - 2 plants each
Lesser Yam - 3 " - 2 " "

Papaya

"Singapore" - 4 plants
"Hawaiian Breakfast" - 4 plants
"Semangka" - 4 plants

Tapioca

Aipin Wangi - 8 cuttings
Aipin Mentega - 8 "

Maize

U.S.D.A. 34 - 1 packet of seeds

Ragi (Eleusine) - 1 -do-

Sweet Potatoes

3 varieties (named) - 12 cuttings of each variety

Bananas

3 suckers each of each of the well known popular varieties

Red Bean (**Phaseolus calcaratus**) - 1 packet of seeds

Avocado - 4 trees

Passiflora quadrangularis - 4 plants

Kumquat - Citrus Fortunei - 2 plants

Tahiti Lime - 4 plants

Italian Lime - 4 plants

Rough Lemon Stock - 2 plants

Seville Orange - 2 plants

Lemon - Villa France - 2 plants
Genoa - 2 "
Villa Granda - 2 "

Green Manures

Crotalaria anagyroides)
" usaramoensis) a small packet of seeds
Tephrosia candida) of each
" toxicaria)
" vogelii)

Cover-Crops

Calopogonium mucunoides)
Centrosema pubescens) a small packet of seeds
Dolichos Hosei) of each
Mikania scandens)
Pueraria phaseoloides)

Sugar Cane

4 cuttings of a good kind for "chewing"

P.T.O.

Ipecacuana - 2 plants

Keladi Klang - 3 suckers
" Hongkong - 3 "
" variety from Nigeria - 3 suckers
" " Gabi " Philippines - 3 "

Xanthosoma

var. Pungkis - 3 suckers

Curcuma domestica)
Curcuma purpurascens) 3 suckers each
Curcuma xanthorhiza)
Curcuma zedoaria)

Alpinia galanga - 3 suckers

Zingiber cassumana - 3 suckers

Pogostemon - pachouli - 2 plants

Planting Material requested from C.K.S., Bandung, by Director of Gardens, S.S.

Yams

Greater Yam - 3 kinds - 2 plants each

Lesser Yam - 3 kinds - 2 plants each

Papaya

"Singapore" - 34 plants

"Hawaiian Breakfast" - 48 plants.

"Semangka" - 48 plants

Tapioca

Aipin Wangi - 8 cuttings

Aipin Mantega - 8 cuttings

Maize ~~Maize~~ — U.S.D.A. 34 - 1 packet of seeds

Ragi (Eleusine) - ~~[illegible]~~ 1 packet of seeds

Sweet Potatoes - 3 varieties (named) - 12 cuttings of each variety

Bananas - 3 suckers each of each of the well-known popular varieties.

Red Bean - (Phaseolus calcaratus) - 1 packet of seed

B 2.8/48

Avocado — 4 trees

Passiflora quadrangularis — 4 plants

Kumquat — Citrus Fortunei — 2 plants

Tahiti Lime — 4 plants

Persian Lime — 4 plants

Rough Lemon Stock — 2 plants

Seville Orange — 2 plants

Lemon — Villa Franca — 2 plants

Genoa — 2 plants

Villa Franca — 2 plants

Green Manures

Crotalaria anagyroides
" usaramoensis
Tephrosia candida
" toxicaria
" vogelii

a small packet of each

Cover Crops

~~Calopogonium mucunoides~~

~~Centrosema~~

Cover - crops

Calopogonium mucunoides
Centrosema pubescens
Dolichos Hosei
Mikania scandens
Pueraria phaseoloides

a small packet of each

Sugar cane

4 cuttings of a good kind for "chewing".

Ipecacuana 2 plants

Kelabi Klang 3 ~~plants~~ suckers
" Hongkong 3 ~~plants~~ suckers
" variety from Nigeria 3 suckers
" " Galei .. Philippines 3 suckers

Xanthosoma
var. Pungkis - 3 suckers

Curcuma domestica
Curcuma purpurascens
Curcuma xanthorhiza
Curcuma zedoaria
] 3 suckers each

Alpinia galanga - 3 suckers.

Zingiber cassumana - 3 suckers
Pogostamon - patchouli - 2 plants

B 28/49

KEH.

It is requested that the following number be quoted in the reply to this letter.

No. .....

CENTRAL EXPERIMENT STATION,
SERDANG, SUNGEI BESI, P.O.,
FEDERATED MALAY STATES.

10th June, 1941.

Dear Corner,

A great many thanks for your letter of 5.6.41.

The problem of non-graminaeceous cattle fodders is one which has only recently begun to receive the attention it deserves. Our investigations have not gone very far and at the moment I can suggest only two plants which can be grown as a cover crop between the planting rows of young rubber and which can also be cut as fodder for stall feeding of cattle. They are the well known Centrosema pubescens and the less common Indigofera endecaphylla. Of the two, Indigofera is probably the better in that it regenerates more readily after cutting. Neither species, however, should be cut oftener than once every six months and cutting rounds should be organised accordingly. A further point to note is that neither cover should ever be cut at ground level; to do so would render the soil liable to erosion and recovery of the plants slow and uncertain. Cutting should be done 2-3 inches from ground level, and land of fair fertility (which should be maintained if possible by top-dressing of manure after cutting - the coolies would probably be willing to sacrifice some of their cattle manure and spread it themselves) should yield from 3 to 5 tons of green material per cutting per acre.

As regards palatability both Centrosema and Indigofera are relished by cattle. Being legumes, however, they are thought to be too rich to feed in such quantities as to satisfy the entire bulk requirements of an animal, and the solution to the problem would appear to be either:-

(a) to give the animal sufficient pasture to satisfy half of its bulk requirement with grass (¼ acre of pasture per animal would probably be enough).

or

(b) to stall feed it almost entirely and satisfy its bulk requirement as to half with coarse fodder grass which could be grown on a specially reserved area, and as to half with Centrosema or Indigofera

It might be worth mentioning that cattle readily graze young lalang which has not been permitted to grow coarse (cutting with a scythe or burning will rectify matters) and as a matter of fact if the grazing is continuous and sufficiently heavy, the lalang will eventually die out and more succulent grasses of the Axonopus and Paspalum types will take its place.

I know very little about Desmanthus virgatus as yet, and I would prefer that the material should not go out of my hands until I know more about it. In any case I have very little seed.

As regards cultivation of Centrosema and Indigofera your planter friend probably knows a great deal more about the game than I do. Should any information be required however it is readily available in this Department's leaflet on "Cover crops" a copy of which is enclosed. I am sorry that Serdang cannot at the moment supply any Indigofera cuttings, but these ought to be available in limited numbers later in the year, October/November. Indigofera seed is obtainable from the usual merchants, but I rather think it is expensive.

(Please convey my kind regards to Mrs.Corner.)

Yours sincerely,

0663

Commonwealth of the Philippines
Department of Agriculture and Commerce
Bureau of Plant Industry
Manila

In reply please address
THE DIRECTOR OF PLANT INDUSTRY
MANILA, PHILIPPINES
And refer to No. 116

RECEIVED
OFFICE OF THE PRESIDENT OF THE PHILIPPINES
JAN 13 1940

D. of C. No. 545/39

Sir:

With reference to our letter to you of September 22, 1939, I have the honor to advise that we are mailing you today, a package containing 50 grams of Job's tears, *Coix lacryma-jobi* L.

Enclosed herewith is our plant inspection certificate (No. 7069) corresponding to the above-mentioned seeds.

Very respectfully

For and in the absence of the
Director of Plant Industry:

Acknowledged on Ack. form.
26.1.40

FRANCISCO D. MARQUEZ
Chief of Agricultural Extension

The Director
Botanic Gardens
Singapore, Straits Setelements

(Through the Honorable
The Secretary of Agriculture and Commerce
Manila, Philippines)

Incl.

15

Rcd 24/1/40

"Tenants and landowner are partners and the LEASE, the partnership contract. No form of lease is wholly satisfactory unless farming is profitable and returns are fairly divided."

158

B. P. I. Form No. 41

Commonwealth of the Philippines
Department of Agriculture and Commerce
Bureau of Plant Industry
Manila

CERTIFICATE OF INSPECTION OF PLANT MATERIALS

Manila

TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY that the plant materials contained and included in the package ////////////////////////////// described below were thoroughly inspected by SEVERO MARQUEZ, a duly authorized Plant Quarantine Inspector of this Bureau, and were found, to the best of his knowledge, to be healthy and free from injurious insects and plant diseases. Moreover, this is to certify that the origin and examination of, and the treatment given to, the plant materials covered by this Certificate of Inspection have been found, verified and made to conform to the requirements of the laws and regulations relating to the plant quarantine and inspection service of Straits Settlements.

Certificate of Inspection No. 7069
Place of Inspection Bureau of Plant Industry, Manila, Philippines
Date of Inspection January 3, 1940

THE DIRECTOR OF PLANT INDUSTRY

Severo Marquez
SEVERO MARQUEZ

This certificate of inspection expires 15 days after date of inspection. So if the plant materials are not exported within that period, they will have to be reinspected.

By _____
Plant Quarantine Officer

Port of Manila

Number and description of containers: One small package

Distinguishing mark on containers: The Director, Botanic Gardens, Singapore, Straits Settlements

Names and descriptions of plant materials: Seed of Adlay, (Coix lacryma- jobi)

Country and locality where grown: Malaybalay, Bukidnon, Philippines

Name and address of exporter: Director of Plant Industry, Manila, Philippines

Name and address of importer: The Director, Botanic Gardens, Singapore, Straits Settlements

Name and address of ultimate consignee: " " " "

Name of vessel carrying the shipment: By mail

Port of shipment: Manila

Approximate date of shipment: January 4, 1940

Port of landing: Singapore

Approximate date of landing: _____

B 2.8/52

(over)

CAUTION

"Any person who violates or contravenes any of the provisions of this Administrative Order (Bureau of Plant Industry Administrative Order No. 10), or who forges, counterfeits, alters, defaces, or destroys any certificate or any paper issued by virtue of this Order, shall be liable to prosecution, and upon conviction shall suffer the penalty provided in Section 13 of Act No. 3027, which is a fine not exceeding one thousand pesos (₱1,000), or imprisonment not exceeding six months, or both, in the discretion of the Court, and such other penalties as are prescribed by the Revised Penal Code."(Paragraph 2[illegible], Administrative Order No. 10.)

January 5, 1940

Sir:

With reference to our letter to you of September 28, 1939, I have the honor to advise that we are mailing you today, a package containing 50 grams of Job's tears, *Coix lacryma-jobi* L.

Enclosed herewith is our plant inspection certificate (No. 7069) corresponding to the above-mentioned seeds.

Very respectfully

For and in the absence of the
Director of Plant Industry:

FRANCISCO M. LANGLAY
Chief of Agricultural Extension

The Director
Botanic Gardens
Singapore, Straits Settlements

(Through the Honorable
The Secretary of Agriculture and Commerce
Manila, Philippines)

Incl.

13

B 2.8/53

January 6, 1960

Sir:

With reference to our letter to you of September 28, 1959, I have the honor to advise that we are mailing you today, a package containing 50 grams of Job's tears, Coix lacryma-Jobi L.

Enclosed herewith is our plant inspection certificate (No. 7089) corresponding to the above-mentioned seeds.

Very respectfully

for and in the absence of the
Director of Plant Industry:

[illegible]
Chief of Agricultural Extension

The Director
Botanic Gardens
Singapore, Straits Settlements

(through the Honorable
The Secretary of Agriculture and Commerce
Manila, Philippines)

Incl.

13

B 2.8/54

No.66/1970 of 1939.

From,

The Professor of Agriculture,
Agricultural college, Poona.

To,

The Director of Gardens,
Botanic gardens, Singapore,
Straits, Settlement,
S I N G A P O R E.

College of Agriculture,

Poona, 12th October 1939.

Subject:- Seeds.

Sir,

With reference to your letter No.REH/AW/546/39 - dated 11th September 1939 addressed to the Director of Agriculture, Bombay Province, Poona, I have the honour to inform you that 2 Ozs. of maize and ½ Oz. of white radish seed have been sent to you by sample post the receipt of which may please be acknowledged. As regards Voandzeia -- Subterranea it is not grown here but it may be available from Madagaskar. Here Arachis hypogea is grown.

I have the honour to be,

Sir,

Your mostobedient servant,

Rai Ch an Ram

For Professor of Agriculture.

apv.

Intimate
Please Mile.
1.11.39

B 2.8/55

No. S.187/21839 OF 19 39

Post Box No. 45

Telegraphic Address:
"BOMAGRI"

FROM W.J.Jenkins Esqr.,M.A.,B.Sc.,C.I.E.,I.A.S.,
~~THE~~ DIRECTOR OF AGRICULTURE,
BOMBAY PROVINCE,
POONA;

TO

The Director of Gardens,
Botanic Gardens, Singapore,
Straits Settlements.

POONA, DATED 5th October 19 39

SUBJECT:— Supply of seeds.

SIR,

With reference to your letter No.546/39 dated the 11th ultimo, on the above subject, I have the honour to state that it has been forwarded for direct disposal to the Professor of Agriculture, Agricultural College, Poona, from whom you will hear in the matter shortly. You may also correspond direct with the above Officer in the matter.

I have the honour to be,
Sir,
Your most obedientservant,

H. M. Shah

For Director of Agriculture.

gvm 3/10

2.11.39.

B 28/56

No. A(1)/2752.

11th October, 1939.

Seeds.

Sir,

I have the honour to acknowledge the receipt of your letter No.547/39 of the 11th September 1939, and to advise despatch per parcel post, of the following seed which I hope will reach you in good condition:

Coix lachryma-jobi - 2 oz.

Maize ... - 3 oz.

Papaya - 2 oz. of each of 2 varieties.

2. A copy of the inspection certificate is enclosed.

3. Please accept the seed with my compliments.

I am, Sir,

Your obedient servant,

for Director of Agriculture.

M.

The Director of Gardens,

Botanic Gardens, Singapore,

Straits Settlements.

acknowledged 24/11/39

Mr Foster

W. Seeds & file

Seeds not yet rec'd

19.10.39.

B 2.8/57

9.10.39

J. N. 6113

A. P. P 11
(F 2) 11/35

DEPARTMENT OF AGRICULTURE, CEYLON.

CERTIFICATE OF EXAMINATION OF PLANTS FOR EXPORT.

THIS is to certify that

[1] the living ~~plants or~~ plant products ~~a representative sample of the living plants or plant products~~ [1] included in the consignment of which particulars are given below were ~~was~~ [1] thoroughly examined on the [2] 7th October, 1939

by [3] J.C.Hutson, Entomologist, and M.Park, Plant Pathologist

~~A(s)~~ duly authorized official(s) of the Department of Agriculture, Ceylon, and found to be healthy, no evidence of the presence of any injurious insect, pest, or disease having been found in ~~on~~ [1] them and that the consignment (including the packing) covered by this certificate ~~has~~ has not [1] been treated ~~in the~~ [4] ~~following manner~~

~~prior~~ ~~immediately subsequent~~ ~~to inspection.~~

~~Inspected~~ ~~Not inspected~~ ~~in the field by a duly authorized inspector on~~

Signature:

Official status: Entomologist. Plant Pathologist.

Date: October 7, 1939.

No. and description of packages: One parcel

Distinguishing marks: Addressed

Description of living plants or plant products or parts thereof: Seeds of Coix lachryma-jobi (Adlay), Maize and two varieties of papaw.

Stated to be grown at Peradeniya and Anuradhapura, Ceylon.

Exported by the Director of Agriculture, Peradeniya, Ceylon.

Name and address of consignee: The Director of Gardens, S.S., Botanic Gardens, Singapore, Straits Settlements.

Name of vessel or particulars of route: By post

Date of shipment: Port or place of entry:

Additional certificate(s) attached: Nil

(Give here details of any special certificate or certificates issued in respect of imports specifically scheduled by the importing country.)

---

[1] Strike out the words not applicable

[2] Date

[3] Name

[4] e.g. fumigated with . . . . or disinfected with . . . .

B 2.8/58

RECEIVED 066.3

Commonwealth of the Philippines
Department of Agriculture and Commerce
Bureau of Plant Industry
Manila

In reply please address
THE DIRECTOR OF PLANT INDUSTRY
MANILA, PHILIPPINES
And refer to No. October 31

September 24, 1939

S i r :

With reference to your letter (No. 545/39) of September 11, 1939, asking some seeds of Job's tears, Coix lacryma-jobi, I have the honor to inform you that this Bureau will be glad to supply you with same as soon as this plant comes in season, which will be in November or December, this year.

Very respectfully

HILARION S. SILAYAN
Director of Plant Industry

The Director
Botanic Gardens
Singapore, Straits Settlements

(Through the Honorable
The Secretary of Agriculture and Commerce
Manila, Philippines

13

"Tenants and landowner are partners and the LEASE, the partnership contract. No form of lease is wholly satisfactory unless farming is profitable and returns are fairly divided."

September 22, 1939

S i r :

With reference to your letter (No. 545/39) of September 11, 1939, asking some seeds of Job's tears, *Coix lacryma-jobi*, I have the honor to inform you that this Bureau will be glad to supply you with same as soon as this plant comes in season, which will be in November or December, this year.

Very respectfully

HILARION S. SILAKAN
Director of Plant Industry

The Director
Botanic Gardens
Singapore, Straits Settlements

(Through the Honorable
The Secretary of Agriculture and Commerce
Manila, Philippines)

13

B 2.8/60

September 22, 1939

S i r :

With reference to your letter (No. 545/39) of September 11, 1939, asking some seeds of Job's tears, Coix lacryma-jobi, I have the honor to inform you that this Bureau will be glad to supply you with same as soon as this plant comes in season, which will be in November or December, this year.

Very respectfully

HILARION S. SILAYAN
Director of Plant Industry

The Director
Botanic Gardens
Singapore, Straits Settlements

(Through the Honorable
The Secretary of Agriculture and Commerce
Manila, Philippines)

13

SEP 5 1939

B 2 8/61

DEPARTMENT OF AGRICULTURE, S.S. & F.M.S.

CENTRAL EXPERIMENT STATION,

SERDANG,

SUNGEI BESI P.O.

28th September, 1939.

D. of G. No. 548/39.

The undermentioned material has been forwarded you today in accordance with your order :—

12 [illegible] Tubes

Rail consignment note enclosed.

Agriculturist. i/c.

To The Director of Gardens
S.S.&F.M.S.
Singapore.

B 2. 8/62

DEPARTMENT OF AGRICULTURE, S.S. & F.M.S.

CENTRAL EXPERIMENT STATION,
SERDANG,
SUNGEI BESI P.O.

28 4 1939.

D.A.G. 548/39.

The undermentioned material has been forwarded you today in accordance with your order :—

50 " " " No. 11
50 " " Philippine No. 4

R.S.

Hawaii papaya ~~seed~~ seeds sent by post.

Rail consignment note enclosed.

Agriculturist, i/c.

To The Director of Land, S.S.
Singapore

B 2.8/63 Sent. 25.4.39.

It is requested that the following number be quoted in the reply to this letter.

No. 2 of 269 - 552/39.

CENTRAL EXPERIMENT STATION,
SERDANG, SUNGEI BESI, P.O.,
FEDERATED MALAY STATES.

15th. September, 1939.

Sir,

I have the honour to acknowledge receipt of your letter dated the11th.instant (No.548/39), and to inform you that Tapioca cuttings, Papaya seeds and a few shoots of Arrow Root will be forwarded to you in a few days. Tubers of Yams will become available in February next.

2. I regret we have no seeds of Voandzeia subterranea and Cyamopsis psoraloides.

I have the honour to be,
Sir,
Your obedient servant,

V. Cook.
Agriculturist i/c.

The Director,
Botanic Gardens,
Singapore.

16.9.39.

B 2.8/64

REH/AW.

548/39. 11th September 9.

Sir,

I have the honour to request that you will supply planting material of the following, so far as available:-

Tapioca, two or three good varieties: 50 cuttings each.

Dioscorea: small quantities of any good varieties available.

Papaya: Hawaiian Breakfast, ~~1 oz.~~ 1 oz. seeds.

Voandzeia subterranea: a small quantity of seed for trial.

Cyamopsis psoraloides: a small quantity of seed for trial.

Arrow root: enough for 2 doz. plants

I have the honour to be,
Sir,
Your obedient servant,

R. E. Holttum,
Director of Gardens, S.S.

The Agriculturist,
Department of Agriculture,
Kuala Lumpur,
F.M.S.

Sept. 26 1939

22.8/45

DRAFT

Fair Copy Signed by } 548/39	19 .

To The Agricultural Engineer Agriculture etc

Sir,

[illegible]

Pelargonium: [illegible] leaf [illegible]

Verbena [illegible]

Chrysanthemum: [illegible] [illegible]

[illegible]

B 2 8/66

REH/AW.

547/39. 11th September 9.

Dear Sir,

I should be grateful if you could send me a small quantity of seeds of the following for trial here:-

Coix lachryma-jobi (Job's tears).

Maize (races suitable to wet districts).

Papaya (two or three of your best varieties).

Yours faithfully,

R.E. Holttum,
Director of Gardens, S.S.

The Director of Agriculture,
Peradeniya,
Ceylon.

Seed file 1939

B 28/67

T G 17

DRAFT

Fair Copy
Signed by } 547/35

11-9- 19 .

To The Secretary of Agriculture
Peradeniya Ceylon

Sir,

REH/AW.

546/39. 11th September 9.

Dear Sir,

I should be grateful if you would send me a small quantity of seeds of the following for trial here:-

White radish (a local slender-rooted variety).

Maize (any races suited to rainy districts).

Voandzeia subterranea (Bambarra groundnut).

I shall be pleased to pay any expenses in connection with supply of the above.

Yours faithfully,

R.E. Holttum,
Director of Gardens, S.S.

The Director of Agriculture,
Bombay Presidency,
Poona,
India.

Seeds File 1939

B 2.8/69

T

G 17

DRAFT

Fair Copy Signed by	} 546/39	19 .

To The Director of Agriculture, Pretoria

Sir,

Thompson

Kl

Voorsitzer
Boekweitmeel
Equum pl. p. psitacinus
Stinkhoutbos

Pomona

Witté radijs
Witte vaalbiet
Witte radijs
Witte uien.
Voorsitzer
witteuien

Witte uien.

D. of A.
Pretoria.

Pomona

Witté radijs
witte uien.
Voorsitzer
witteuien

witte uien.

B 28/70

RMI/AW.

E.S.(D). 174 September 9.

Dear Sir,

I should be grateful if you could send to me a small quantity of seeds of a good variety of Job's Tears (Coix lacryma-job) for trial here.

Yours faithfully,

R.E. Holttum,
Director of Gardens, S.S.

The Director of Agriculture,
Manila,
Philippine Islands.

Seeds File 1939.

B 2.8/71

T G 17

DRAFT

Fair Copy
Signed by } 545/39

19 .

To Director of Agriculture
Manila, Philippine Islands

Dear Sir,

I shall be pleased if you will
send to me the number of seeds
and price of [illegible] Tree
[illegible] for Tuitui Island.

Yours faithfully

B 2.8/72

F. pyriformis

Rivers Cig[illegible] B[illegible]

(lat. pear-shaped)

A straggling shrub ~~with~~ ~~Ter~~ up to 8' high, with terminal branching.

Leaf blade 2-5½ x 2½-3 1" narrow lanceolate, (darkgreen with white dots) straight 1-3" long, velvety upperside

Fr. is 1" wide, pear-shaped set with 5-10 ~~st~~ long tubercles, green flushed pink red or purple (? our observation) the stalks ¼-¾" long deflexed: a pair in the leaf-axils.

Sub-Cape Malay Peninsula: common on the rocks & banks of Saraca streams (p.) from Lower Perak northward, not in the south, up to 3500' altitude

~~This is a typical view of Saraca streams in the northern half of the Peninsula. ~~ ~~It is the~~

Like the riverside Sxora, this fig ~~may~~ may ~~finally~~ form low carpetting ridges on ~~the~~ rocks in mid-stream. Its ~~extinction~~ recurrence is strange, limited in Malaya.